

Travel Demand Model Fact Sheet

Identification							
Model Name: Garrard County				Model Area: All of Garrard County			
Purpose of Model: Lancaster US 27 Bypass							
Model Developer: JJG (Alan Davis)				Mod. Software Used: TransCAD			
Date Model Work Began: July 2003				Date Finished: July 2004			
Model Years:	Base Yr:	Fut. Yr:	Interim Years:				
	2003	2030					

Technical Specifications	
# TAZs / # links: 89 zones, 13 External Stations, 501 links	
Trip Rates: 3.3 trip per person	
Trip Generation Equations: NCHRP 365	
EE Methodology: Statewide Model	
BPR Equations Used: Beta = 6.0	
Assignment Methodology: Double Constrained Gravity Model, stochastic user equilibrium	
Truck Model:	Mode Choice:
Time of Day Modeling:	Model Running Time: 25 seconds Air Quality Component:
Script / Batch File Description (How Developed?) Used Madison County as beginning point	

Calibration/Validation	
RMSE: 26.71	Screenline Summary - Y/N: N How Many:
Methods Used for Calibration: RMSE, VMT	
Urban / Rural Comparison: None	
Unusual Calibration Measures Taken (K-Factors; Matrix Estimation): None	
VMT Model / VMT KYTC Comparison: 1.12	
VMT Increase In Future Year: 1.16	

Travel Demand Model Fact Sheet

Data Collection/Network Development		
Special Counts - Y/N:N	How Many?	Where?
SE Data: Base Data Source:200 Census, Unemploy Population/Employment Ratio:		
Future Estimate Source:BGADD, KY State Data Center		
Base Network Developed From?:HIS data		
Other Data (e.g. Origin-Destination):		
Other Networks:	Scenarios / Alternative Networks:	
	E + C: East Bypass, West Bypass	